

L 06189-67 EWT(1)/EWT(m)/EEC(k)-2/EWP(t)/ETI/EWP(k)/EWP(1) IJP(c) WG/RTW/JD
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ORG: Dnepropetrovsk State University (Dnepropetrovskiy gosudarstvennyy universitet)

TITLE: Vibrational relaxation of the C_2 molecule in the excited electronic state

SOURCE: AN SSSR. Doklady, v. 169, no. 4, 1966, 858-860

TOPIC TAGS: gas discharge spectroscopy, CC radical, Swan band, carbon, excited electronic state, vibration relaxation, diatomic molecule

ABSTRACT: A spectroscopic investigation was carried out of the effect of various gases on the emission of Swan bands of C_2 excited in an electrical discharge. A condensed discharge was passed through a tube (described) filled with the gas of interest at a reduced pressure. A clearly visible afterglow was observed along the discharge path, whose spectrum consisting of Swan bands of C_2 was investigated. The gases used were CO (pressure range, 10—45 mm Hg), 0.5% CO + 99.5% He (10—700 mm Hg), and 0.5% CO + 99.5% Ar (10—150 mm Hg). The results are reported and interpreted in terms of the theory of vibrational relaxation of diatomic molecules in the excited electronic state. Orig. art. has: 1 figure and 1 table. [W.A. 68] [SM]

SUB CODE: 20/ SUBM DATE: 06Oct65/ ORIG REF: 007/ OTH REF: 006

Cord 1/1 af:

UDC: 535.337

BUGRIMENKO, I.F.; STRUZHESTRAKH, Ye.I., inzh., red.; PETUKHOVA, G.N.,
~~revis~~-va; TIKHANOV, A.Ya., tekhn. red.

[Determining cutting conditions for machining on lathes]
Opredelenie rezhimov rezaniia dlia raboty na tokarnykh
stankakh. Moskva, Mashgiz, 1963. 166 p. (MIRA 16:9)
(Turning)

BUGRIN, S.

BUGRIN, S., inzhener.

Experience in modernizing brick-molding equipment. Stroim. 3
no.8:29-30 Ag '57. (MLRA 10:10)
(Brickmaking machinery)

BUGRIM, S., inzh.

Bricks made of mine wastes. Stroi. mat. 4 no.2:29-30 P '58.

(MIRA 11:2)

Komi A.S.S.R.--Brickmaking)

BUGRIMENKO, A.M., inzh.-konstruktor

Electric fences operated on storage batteries. Put' i put.khoz.
4 no.11:33-34 N '60. (MIRA 13:12)
(Electric fences) (Railroads—Safety measures)

BUGRIMENKO, A.M., inzh.-konstruktor

Communication and signal systems should be built into all
machinery. Put' i put. khoz. 4 no. 12:21 D '60. (MIRA 13:12)
(Railroads--Communication systems)

BUGRIMOV, Yevgeniy Ivanovich

[Animal husbandry in the seven-year plan] Zhivotnovodstvo
v semiletke. Moskva, Sel'khozgiz, 1960. 197 p. (MIRA 14:4)

(Stock and stock breeding)

BUGRIN, S.K.

KOVALEV, N.N., laureat Stalinskoy premii; ANOSOV, F.V.; BUGRIN, S.K.;
GARKAVI, Yu.Ye.; GRANOVSKIY, S.A.; ORGO, V.M.; ORLOV, I.V.; USTINOV,
B.M.; GAMZE, Z.M., laureat Stalinskoy premii, dots., retsenzent

[New turbines at the Dnieper Hydroelectric Power Station] Novye
turbiny Dneprovskoi gidroelektrostantsii im. V.I.Lenina. Pod red.
N.N.Kovaleva. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
lit-ry, 1951. 127 p. (MIRA 11:5)
(Dnieper Hydroelectric Power Station)
(Hydraulic turbines)

BUGRIN, S.K.; RAUD, M.A.

Encapsuled hydraulic turbine. Biul. tekhn.-ekon. inform. Gos.
nauch.-issl. inst. nauch. i tekhn. inform. 17 no.2:41-43 '64.
(MIRA 17:6)

BUGRIN, S.K., inzh.; RAUD, M.A., inzh.

Horizontal capsule units for the Cherepovets Hydroelectric
Power Station. [Trudy] LMZ no.10:29-38 '64.

(MIRA 18:12)

PLEASE I BOOK EXPLOITATION

6562/AD8

Oral 'shots' available for protection

Materialy 2 Ural'skogo seshenaniya po spektroskopii, Sverdlovsk, 1958 g. (Materials of the Second Urals Conference on Spectroscopy, Held in Sverdlovsk, 1958) Sverdlovsk, Metallurgizdat, 1957. 206 p. Krasnaa slonin-papir. 1,000 copies printed.

Spacelife Agency: Ural'skiy filial Akademii nauk SSSR. Kommissiya po spetsializatsii i razvitiyu kosmicheskoy tekhniki. Ural'skiy dom tekhnicheskoy nauki.

NAME: Mr. Borisovich Mayevich and Grigoriy Pavlovich Gerasimov; Tasha
 ADDRESS: 9, M. Radykh.

PURPOSE: This collection of articles is intended for scientific and/or laboratory workers at ferrous and nonferrous metallurgical plants, and for laboratory personnel of the metal-forming industry, geological and prospecting organizations, and similar scientific research laboratories.

On the other hand, the collection contains papers, books, and materials and alloys on the spectral analysis of metals, alloys, and other materials used in industry. The material of the conference includes articles on the analysis of steel (including the determination of gases), ferrous alloys, nonferrous and light metals and alloys, some latest applications in working with volumetric laboratories, and to report on the results of scientific research. The author, Gennadiy K. I. Ostrikov and Yu. M. Shumakov. Almost all of the articles are accompanied by references.

Solov'eva, G. Ye. Investigation of the Interaction of the Components of an Alloy on the Degree of Ionization of Atoms

Aleksovsky, Yu. M. Bone Distribution Characteristics of Particles
Is 62 A-2 Arc

1. Polotskii, G. Ye. Investigation of Evaporation Kinetics of Oxidizing Metallic Electrodes of an Arc

Sokolov, A. V., G. I. Khramov, and V. P. Shirokovskiy. Double Re-
fraction of Uniaxial Bismuthic Crystal

Surveyor, T. M. Problem of the Entry of the Probe Material Into the Extending Cloud During the Spectral Analysis of Steel

Mal'nev, M. O., and K. I. Tikhonov, Application of Constant Electric Field Transistor for Eliminating the Effect of Composition, Structure, and Mass of Samples during the Spectral Analysis of Certain Alloys (Khar'kov, 1966).
Khar'kov, Yu. M., O. P. Mironkina, and V. I. Dzhigalova, Investigation of the Effect of Structure on the Spectral Analysis Results of Structural Steel (Khar'kov, 1966).

Buravskiy, Yu. M.,^X V. I. Utlitskov, and D. Ye. Shaykima. Effect of irradiation on the results of the spectral analysis of high-speed swirling flows.

BYKOV, N. V. & S. L. Zublyarskiy, O. V. Kornishin, V. P. Kopylov,
and V. H. Litvinenko. Spectral Analysis of Steel With a Modernised
TMS-1 Treatment

Stetitckiy, M. S. Spectral Analysis of Gases Contained in Metal

Smeyers-Webe, A. B. Spectral Analysis of Multicomponent Systems with a
High and Varying Content of Components

Shaverich, A. B., M. A. Porodilina, and N. A. Kobrina, Spectral Analysis of 45% and 75% Perrosilicon

Kolomoets, Ye. M., A. B. Shmyrevich, V. V. Bugulina, N. I. Gribachenko, and M. A. Perevalovskii. Spectral Analysis of Petronobium, Perovskium, and Titanium Concentrate

Kolova, A. V. Role of Internal Standard in the Spectral Analysis of Various Ferroalloys

Yakubovskiy, Ye. M.,^X V. V. Bugrinskii, and A. K. Tumakov, Spectral Analysis of Chromium-Base Alloys

Lobova, L. D. Spectral Methods of Analyzing Products of the Magnesium and Titanium Industry

Podina, O. A. Application of Spectral Analysis at the Severstal Metallurgical Plant

Gavrilov, D. I., and L. G. Sosneva. Spectral Analysis at the "Orskoi" marsh Plant

SUKROVTSEVA, N.M.; BUGRINA, V.V.

Spectral analysis of ferroalloys, chromium concentrate, and chromium oxide by the injection method. Zav. lab. 27 no.3:314 '61.

(MIRA 14:3)

1. Klyuchevskiy zavod ferrosplavov.
(Iron alloys--Spectra)
(Chromium--Spectra)

BUGRINOV, S.K. (Kimry Kalininskoy oblasti)

Determining the specific heat of water vaporization. Fiz. v shkole
17 no.2:68 Mr-Apr '57. (MLRA 10:3)
(Heat of vaporization)

BUGRINOV, G. M.

2

Electrical Engineering Abst.
Vol. 57 No. 675
Mar. 1954
Electrical Engineering

621.311.4
865. Urban indoor substations with deep entrance
110 kV lines. E. A. BUGRINOV AND G. M. YAGODIN.
Elektr. Stantsii, 1953, No. 6, 26-30. In Russian.

Reliable indoor substations 110/6-10 kV for up to
120 MVA and up to 26 outgoing double cables have
been designed for the supply of the central areas of
large towns. In the first of these stations, the 110 kV
switchplant is arranged above the 6 kV switchplant
in a 4-storey building of 21.2 m height and 12.8 m
width. The transformers stand outdoors in the yard.
Other buildings for control, transformer servicing,
equipment store and the emergency oil pit bring the
total area up to 3000 m² which is 10-15 times less
than the area of existing outdoor stations of similar
capacity. The architectural style is adapted to the
surroundings.

F. BUSEMANN

621.311.42
3990. Fundamental problems of planning regional substations with three voltages. E. A. BUORINOV. *Elektrichestvo*, 1954, No. 3, 30-3, *In Russian*.

The selection of the most suitable electrical circuit arrangements of transit and non-transit types of regional substations for the voltages 110, 35 and 6(10) kV is considered from the viewpoints of economy and safety of operation. For transit stations the "square" circuit or a circuit with a single busbar system are recommended, for non-transit stations a bridge circuit. The number of busbar systems required depends on the number of lines connected to the station. The author also considers the layout of the substation from the viewpoint of space-saving. The combination of 110 and 35 kV outdoor switchgear with 6(10) kV indoor switchgear and the question whether or not incoming and outgoing lines are mainly unidirectional are also considered.

B. F. KRAUS

BUGRINOV, Ye. A.

GRUNDINSKIY, P.G., professor; KUVSHINSKIY, N.N., dotsent, kandidat
tekhnicheskikh nauk; SEMENOV, S.N., inzhener; BUGRINOV, Ye.A.,
inzhener.

Remarks on L.D.Dvoskin's article "New scheme and construction
of the distributing system of an electric power station."
Elektrichestvo no.6:86-88 Je '54. (MIRA 7:7)

1. Moskovskiy energeticheskiy institut im. Molotova (for Grun-
dinskiy, Kuvshinskiy) 2. Mosenergoprojekt (for Semenov, Bugri-
nov)

(Dvoskin, L.D.) (Electric power stations)

Bugrinov, Ye. A.

AID P -- 948

Subject : USSR/Electricity
Card 1/1 Pub. 27 - 17/25
Author : Bugrinov, Ye. A., Eng., Moscow
Title : A new design of 6- and 10-kv switch-and-bus equipment
Periodical : Elektrichestvo, 10, 76-78, 0 1954
Abstract : The new design developed by the Mosenergoprojekt (Moscow Regional Power System Administration) for power stations and substations is presented for discussion. Two diagrams.
Institution : Mosenergoprojekt (Moscow Regional Power System Administration)
Submitted : My 21, 1954

BUGRINOV, Ye. A.

AID P - 1509

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 5/36

Authors : Bugrinov, Ye. A., Eng., Matyushin, M. V., Eng. and
Nazarov, V. N., Eng.

Title : Design of 110-kv indoor switching substation (Discussion
of an article by L. I. Dvoskin in Elek. sta., 1954, No.1)

Periodical : Elek. sta., 3, 18-21, Mr 1955

Abstract : The authors discuss the details of 110 kv indoor
switching substation designed by L. I. Dvoskin. They
attempt to prove the superiority of outdoor substation.
They also criticize some of the technical solutions
proposed by L. I. Dvoskin.

Institution: None

Submitted : No date

BUGRINOV, YE. A.

AID P - 2011

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 15/31

Author : Bugrinov, Ye. A., Eng.

Title : ~~Need for the creation of new 110-kv electrical apparatus~~
and switching station equipment

Periodical : Elektrichestvo, 4, 68-70, Ap 1955

Abstract : The author describes an arrangement of his own design consisting of a new 110-kv electrical apparatus fitted into a compact switching station. The apparatus performs the joint functions of a circuit breaker, disconnecting switch, and current transformer. This simplifies the structure and assembly of the switching station and reduces its dimensions and the number of insulators and bus-bars. Four drawings.

Institution: MOSENERGOPROYEKT (Moscow Regional Power System Administration).

Submitted : 0 20, 1954

Bugrinov, E. A.

AID P - 2541

Subject : USSR/Electricity
Card 1/2 Pub. 26 - 25/32
Authors : Chernyshevich, V. I., S. A. Kudryashov, E. A. Bugrinov,
R. R. Mamoshin, K. A. Orlov, V. M. Yefremov, Engs.
Title : On G. M. Kayalov's article "6-10 kv switch gear and
control equipment in 2-story substations" (Letters
from readers)
Periodical : Elek sta, 6, 54-56, Je 1955
Abstract : G. M. Kayalov in his article (No. 10, 1954, this
journal) suggested the erection of 2-story substations
for 6-10 kv switchgear instead of the standard 3-story
buildings erected for industrial and regional sub-
stations. His suggestions are considered favorably
by several engineers. However, some recommendations
on the distribution of the equipment and on the layout
of the 2-story substations are made. One diagram.

Elek sta, 6, 54-56, Je 1955

Card 2/2 Pub. 26 - 25/32

AID P 2541

Institution : None

Submitted : No date

631.311.4
55. SIMPLIFIED TYPES OF 35-110 kV OUTDOOR SUB-
STATIONS. E. A. Gurinova.
Elekt. Stantsii, 1957, No. 8, 24-s. In Russian.
Describes a simplified variant of the structural design of out-
door 35-110 kV distribution equipment which has the advantage of
reduced space requirements and greater compactness as compared
with usual types. With busbars extended by 45.5%, and 35.3% more
insulators, the supporting members are 33% less and their footings
63.3% less for a site area 15% smaller.
Central Electricity Generating Board Digest.

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row 1/1

BUGRINOV, Ye.A., inzh.; MATYUSHIN, M.V., inzh.

News in the design of substations. Elek. sta. 29 no.10:42-46 0 '58.
(Electric substations) (MIRA 11:11)

ZHITKEVICH, V.F.; LYUTYY, A.I.; ROSSIKHIN, V.S.; TSIKORA, I.L.
Prinimal uchastiye BUGRIM, Ye.D.

Anomalous excitation of metals in the flames and vapors of certain
organic compounds. Opt. i spektr. 15 no.3:405-412 S '63.
(MIRA 16:10)

BUCKLEY, E.S.

Coatings for electrodes used in welding high temperature apparatus. F. S. Bugril. *Akhn. Mashinostroyeniye* 1030, No. 0, 21-877. Specimens of the steel contg. C 0.20, Mn 0.50, Si 0.03, P 0.03 and S 0.01% were welded by use of the electrode wire contg. C 0.10, Mn 0.1, Si 0.03, P 0.01 and S 0.03% and electrode coatings of various Russian trade marks. Different amts. of Cr and Mo were added to the coatings to increase the heat resistance of the weld. The compn. of the steel is close to that used in the manuf. of diesel and rotating furnaces and the heat resistance of the welded specimens to temps. of 100-800° was detd. The use of a chalk coating gave unsatisfactory results at high temps. The addn. of Cr results in increased tensile strength, but it also decreases the toughness of the weld metal at normal temp. which may cause the formation of cracks during the welding process. Small amts. of Mo improved the mech. properties of the weld, especially at high temps. B. L. K.

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

147080	147081	147082	147083	147084	147085	147086	147087	147088	147089	147090	147091	147092	147093	147094	147095	147096	147097	147098	147099	147100	147101	147102	147103	147104	147105	147106	147107	147108	147109	147110	147111	147112	147113	147114	147115	147116	147117	147118	147119	147120	147121	147122	147123	147124	147125	147126	147127	147128	147129	147130	147131	147132	147133	147134	147135	147136	147137	147138	147139	147140	147141	147142	147143	147144	147145	147146	147147	147148	147149	147150	147151	147152	147153	147154	147155	147156	147157	147158	147159	147160	147161	147162	147163	147164	147165	147166	147167	147168	147169	147170	147171	147172	147173	147174	147175	147176	147177	147178	147179	147180	147181	147182	147183	147184	147185	147186	147187	147188	147189	147190	147191	147192	147193	147194	147195	147196	147197	147198	147199	147200	147201	147202	147203	147204	147205	147206	147207	147208	147209	147210	147211	147212	147213	147214	147215	147216	147217	147218	147219	147220	147221	147222	147223	147224	147225	147226	147227	147228	147229	147230	147231	147232	147233	147234	147235	147236	147237	147238	147239	147240	147241	147242	147243	147244	147245	147246	147247	147248	147249	147250	147251	147252	147253	147254	147255	147256	147257	147258	147259	147260	147261	147262	147263	147264	147265	147266	147267	147268	147269	147270	147271	147272	147273	147274	147275	147276	147277	147278	147279	147280	147281	147282	147283	147284	147285	147286	147287	147288	147289	147290	147291	147292	147293	147294	147295	147296	147297	147298	147299	147300	147301	147302	147303	147304	147305	147306	147307	147308	147309	147310	147311	147312	147313	147314	147315	147316	147317	147318	147319	147320	147321	147322	147323	147324	147325	147326	147327	147328	147329	147330	147331	147332	147333	147334	147335	147336	147337	147338	147339	147340	147341	147342	147343	147344	147345	147346	147347	147348	147349	147350	147351	147352	147353	147354	147355	147356	147357	147358	147359	147360	147361	147362	147363	147364	147365	147366	147367	147368	147369	147370	147371	147372	147373	147374	147375	147376	147377	147378	147379	147380	147381	147382	147383	147384	147385	147386	147387	147388	147389	147390	147391	147392	147393	147394	147395	147396	147397	147398	147399	147400	147401	147402	147403	147404	147405	147406	147407	147408	147409	147410	147411	147412	147413	147414	147415	147416	147417	147418	147419	147420	147421	147422	147423	147424	147425	147426	147427	147428	147429	147430	147431	147432	147433	147434	147435	147436	147437	147438	147439	147440	147441	147442	147443	147444	147445	147446	147447	147448	147449	147450	147451	147452	147453	147454	147455	147456	147457	147458	147459	147460	147461	147462	147463	147464	147465	147466	147467	147468	147469	147470	147471	147472	147473	147474	147475	147476	147477	147478	147479	147480	147481	147482	147483	147484	147485	147486	147487	147488	147489	147490	147491	147492	147493	147494	147495	147496	147497	147498	147499	147500	147501	147502	147503	147504	147505	147506	147507	147508	147509	147510	147511	147512	147513	147514	147515	147516	147517	147518	147519	147520	147521	147522	147523	147524	147525	147526	147527	147528	147529	147530	147531	147532	147533	147534	147535	147536	147537	147538	147539	147540	147541	147542	147543	147544	147545	147546	147547	147548	147549	147550	147551	147552	147553	147554	147555	147556	147557	147558	147559	147560	147561	147562	147563	147564	147565	147566	147567	147568	147569	147570	147571	147572	147573	147574	147575	147576	147577	147578	147579	147580	147581	147582	147583	147584	147585	147586	147587	147588	147589	147590	147591	147592	147593	147594	147595	147596	147597	147598	147599	147600	147601	147602	147603	147604	147605	147606	147607	147608	147609	147610	147611	147612	147613	147614	147615	147616	147617	147618	147619	147620	147621	147622	147623	147624	147625	147626	147627	147628	147629	147630	147631	147632	147633	147634	147635	147636	147637	147638	147639	147640	147641	147642	147643	147644	147645	147646	147647	147648	147649	147650	147651	147652	147653	147654	147655	147656	147657	147658	147659	147660	147661	147662	147663	147664	147665	147666	147667	147668	147669	147670	147671	147672	147673	147674	147675	147676	147677	147678	147679	147680	147681	147682	147683	147684	147685	147686	147687	147688	147689	147690	147691	147692	147693	147694	147695	147696	147697	147698	147699	147700	147701	147702	147703	147704	147705	147706	147707	147708	147709	147710	147711	147712	147713	147714	147715	147716	147717	147718	147719	147720	147721	147722	147723	147724	147725	147726	147727	147728	147729	147730	147731	147732	147733	147734	147735	147736	147737	147738	147739	147740	147741	147742	147743	147744	147745	147746	147747	147748	147749	147750	147751	147752	147753	147754	147755	147756	147757	147758	147759	147760	147761	147762	147763	147764	147765	147766	147767	147768	147769	147770	147771	147772	147773	147774	147775	147776	147777	147778	147779	147780	147781	147782	147783	147784	147785	147786	147787	147788	147789	147790	147791	147792	147793	14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BUGRIY, F. S.

Automatic welding of apparatus made from double steel layer. Avtom. svar., 4,
No 6(21), 1951.

BUGRIY, F.S.; ROYTENBERG, A.I.

Infinitely variable terminal speed regulators in automatic welding
units. Avtom.svar. 6 no.1:75-76 Ja-F '53. (MIRA 7:6)

1. Kiyevskiy zavod "Bol'shevik". (Electric welding)

Bugriy, F.S.

Subject : USSR/Engineering AID P - 994

Card 1/1 Pub. 11 - 8/13

Authors : Bugriy, F. S. and Shimanskiy, N. S. (deceased)

Title : ~~Cracks in the welded seams at automatic welding of double-layer steel of grade MSt3 + lKh18N9T with flux~~
Cracks in the welded seams at automatic welding of double-layer steel of grade MSt3 + lKh18N9T with flux

Periodical : Avtom. svar., #5, 76-81, S-0 1954

Abstract : The technology and technique of welding of two-layer steel are outlined with the view of preventing crack formation in the butt-welded seams, indicated by x-ray examination. Six cross sections, 6 photo macrographs and 2 Russian references (1941-51).

Institution : None

Submitted : My 22, 1954

USSR/Engineering - Welding

Card : 1/1

Authors : Bugriy, F. S., Engineer

Title : Electric-arc welding of sheet chrome-nickel alloy

Periodical : Vest. Mash., 34, Ed. 6, 83 - 84, June 1954

Abstract : Directions are given for welding sheet chrome-nickel alloy. Data from former experiments are analyzed and norms established for welded seams. Illustrations; tables.

Institution : ...

Submitted : ...

BUGRIY, F.S.

USSR/ Engineering--Welding

Card 1/1 : Pub. 128--26/33

Authors : Bugriy, F. S., Engineer

Title : Automatic welding under a flux of chrome-nickel alloy

Periodical : Vest. mash. 34/8, 85-86, Aug 1954

Abstract : The ability of chrome-nickel alloy (20 to 30% chromium) to withstand heat without corrosion is noted. A description is given of researches in welding with a flux of this material. The description includes figures for dimensions of parts and the composition of the flux, which contains elements besides chromium and nickel. Illustrations; tables.

Institution :

Submitted :

SOV/137-57-1-894

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 115 (USSR)

AUTHOR: Bugriy, F. S.

TITLE: Automatic and Semiautomatic Welding of Special Steels (Avtomaticheskaya i poluavtomaticheskaya svarka spetsial'nykh staley)

PERIODICAL: Sb. dokl. nauch.-tekhn. konferentsii svarshchikov. Kiyev-Moscow, Mashgiz, 1955, pp 75-84

ABSTRACT: An account of the experience accumulated at the "Bol'shevik" plant in the manufacture of welded chemical apparatus made of acid-resistant steels of the types 1Kh18N9T, Kh18N12M2T, Kh18N12M3T, Kh18N11B, as well as of a two-layer [duplex] steel Mst. 3-1Kh18N9T which contains Ti and Nb for the purpose of preventing intercrystalline corrosion (C) and Mo for the purpose of preventing "spot C" (pitting) in chloride solutions. Owing to the oxidation of Ti during welding (up to 85%), the C resistance of welds (W) performed with electrode wires of the same composition as the parent metal is not identical to the C resistance of the latter. Similarly, W's exhibiting the same resistance to hot cracking as the parent metal cannot be achieved when a welding wire containing Nb is employed. The

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SOV/137-57-1-894

Automatic and Semiautomatic Welding of Special Steels

performance characteristics of the W's may be improved and the welding operations simplified if wires EI-605 and EI-606, as developed by the Electric Welding Institute, Academy of Sciences, Ukrainian SSR, are employed. Procedures of automatic submerged-arc welding employed in conjunction with the AN-26 flux in two-sided welding of components 6-15 mm thick (without groove preparation of the edges) are described, also the mechanical properties and data on the resistance of the W's to general and intercrystalline C. It was established that W's performed with OKh18N9 wire may be made resistant to intercrystalline C by being subjected to a stabilizing anneal from a temperature of 830-850°C instead of being quenched in water from 1100-1150°. The technology and process parameters of semiautomatic butt welding performed on the same types of steels (4-6 mm thick and without groove preparation of the edges) with the aid of roller stands and manipulators are described. In the process of automatic welding of two-layer [duplex] steels of the type Mst. 3-1Kh18N9T having a total thickness of 6-22 mm, the thickness of the plating layer being 2-4 mm, the following major difficulties are encountered: Fusion of the layer of the 1Kh18N9T steel and formation of brittle regions of troostite when butt welding is performed on the side of the Mst. 3 steel; if welding is performed on the side of the 1Kh18N9T steel, fusion of the Mst. 3 layer results; dilution of the W metal with Mst. 3 tends to lower the C resistance of the

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Automatic and Semiautomatic Welding of Special Steels

SOV/137-57-1-894

W and also leads to the appearance of micro and macrocracks. In order to prevent these effects it is recommended that the joint edges be carefully prepared, with a gap not exceeding 0.1 mm, and that the following welding procedures ensuring minimum fusion (1.5-2.5 mm) of the lower layer be followed: The welding of the joint on the side of the plating layer is to be preceded by manual welding of the root opening on the side of the Mst.3 with the aid of E's of the UONI-13/45 type; employment of special clamping and backing fixtures with an asbestos lining on the side of the lKh18N9T layer. A method is described whereby welding defects on the side of the steel lKh18N9T may be corrected by means of cutting 4-7 mm deep grooves into the W with the aid of grinding discs employing a vulcanite binder (the discs being of the medium hardness D250x8x2⁵ type with a Nr-46 grain) followed by rewelding with type TsL-2 E's made of El-606 wire.

V. S.

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BUGRIY, F. S.

200

USSR

9828* Experiment in the Automatic Welding of Two-Layer Steel Vessels. Opit avtomaticheskoi svarki sudov iz dvukh-sloinnoi stali. (Russian.) F. S. Bugrii. Stroitelnoe Proizvodstvo, 1955, no. 3, Mar., p. 16-18.
Techniques for fusing the rust-resistant steel seam into the low-carbon steel. Photographs, diagrams, micrographs 2 ref.

7/1955

BUGRIY, F.S.

~~ARC welding of L-62 and LO-62-1 brass using carbon electrodes. Avtom.~~
svar, 10 no.2:107-110 Mr-Ap '57. (MIRA 10:6)

1. Kiyevskiy zavod "Bol'shevik".
(Brass- Welding) (Electrodes, Carbon)

BUGRIY, F.S.

AUTHOR: Bugriy, F.S., Engineer

135-58-5-9/17

TITLE: Automatic Welding of Aluminum by a Split Electrode (Avtomaticheskaya svarka alyuminiya rasshcheplennym elektrodom)

PERIODICAL: Svarochnoye Proizvodstvo, 1958, Nr 5, pp 27-29 (USSR)

ABSTRACT: A new method of automatically welding aluminum containers of 1,500 to 3,000 mm diameter, developed jointly by the Institut elektrosvarki imeni Ye.O. Patona (Electric Welding Institute imeni Ye.O. Paton) and the plant "Bol'shevik" is described. The technology of the method is given in detail. The essence of the method consists in the simultaneous use of two electrode wires placed on the opposite sides of the seam (Fig. 1) and connected to one feeder. The information includes the composition of the special flux "AN-Al" and recommendations concerning the shape and the dimensions of the flux layer. The photographs show the welding tractors "A-474" and "TS-17MA". The method permits welding subsequent (i.e. opposite) seams without the use of mobile supporting devices, fully eliminates preheating in the process of welding, and considerably improves the stability of the process. The fusion depth of seam is

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Automatic welding of Aluminum by a Split Electrode

135-58-5-9/17

controlled by changing the distance between the electrodes.
The resulting connections are of high quality and of nearly
the same corrosion resistance as the base metal.
There are 5 figures and 3 tables.

ASSOCIATION: Kiyevskiy zavod "Bol'shevik" (Kiyev Plant "Bol'shevik")

AVAILABLE: Library of Congress

Card 2/2

RABKIN, Daniil Markovich; GURNVICH, Samuil Markovich; BUGRIY, Filipp
Semenovich; PATON, B.Ye., otv.red.; ASNIS, kand.tekhn.nauk,
red.vypuska; KAZIMIROV, A.A., red.; MEDOVAR, B.I., red.;
PODGAYETSKIY, V.V., red.; SERDYUK, V.K., inzh., red.

[Nonferrous metal welding] Svarka tsvetnykh metallov. Moskva,
Gos.nauchno-tekh.isd-vo mashinostroit.lit-ry, 1959. 69 p.

(MIRA 12:7)

(Nonferrous metals--Welding)

24.7000

3/181/62/004/006/005/051
B100/B104

AUTHORS: Bugriyenko, V. I., and Demidov, K. K.

TITLE: Some features of the photoelectretic state in HgI_2

PERIODICAL: Fizika tverdogo tela, V. 4, no. 6, 1962, 1424-1426

TEXT: A photoelectretic state was observed in tetragonal (red) HgI_2 .

Some features of this state were examined at room temperature. A strong dark polarization was found which is due to carrier excitation after illumination. From the decay of the overall polarization with time it can be inferred that a heterocharge caused by dark and photo-polarization exists simultaneously with a homocharge. The photo-polarization can, therefore, be ascertained only after more than 15 min, when the homocharge has become insignificant. The assumption of a homocharge in the specimens would account for the experimental results which showed a dark polarization greater than the overall polarization. There are 2 figures.

Card 1

1

Some Features of the piezoelectric ... S, 181/82, 004/906/005/051
3106/3104

ASSOCIATION Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University imeni I. I. Mechnikov)

SUBMITTED: December 15, 1961

Card 2/2

38902

S/181/62/004/006/006/051
B125/B104

24.7600

AUTHORS: Bugriyenko, V. I., and Belous, V. M.

TITLE: The photoelectretic state in silver chloride

PERIODICAL: Fizika tverdogo tela, v. 4, no. 6, 1962, 1427 - 1429

TEXT: The dark polarization and photopolarization of AgCl single crystals were determined at -150°C . The current that passed through specimens depolarized by light was measured with an electrometer. The crystals were grown by Bridgman's method and rolled into plates of 0.3 mm thickness. The source of light was an incandescent lamp with a water filter. As the intensity of the electric field was increased from 1 to 6 kv/cm, the depolarization currents of the dark and photopolarization rose linearly from $\sim 7 \cdot 10^{-10}$ to $\sim 48 \cdot 10^{-10}$ a, and from $\sim 12 \cdot 10^{-10}$ to $\sim 67 \cdot 10^{-10}$ a, respectively. At lower temperatures, the total polarization is essentially determined by the photopolarization. The highest charge density was $40 \cdot 10^{-9}$ coulomb/cm². With light of high intensity the photopolarization becomes saturated. Both kinds of polarization hyperbolically decrease in time (exponents: $\alpha = 0.95$)

Card 1/2

The photoelectretic state...

S/181/62/004/006/006/051
B125/B104

and 0.2, respectively) and are caused by a complex system of trapping levels. The dark polarization is connected with shallow traps. The results correspond to the luminescence properties of AgCl phosphors. Investigations of the photoelectrical properties of silver chloride are under way. There are 4 figures. ✓

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University imeni I. I. Mechnikov)

SUBMITTED: December 15, 1961

Card 2/2

ACCESSION NR: AP4034907

S/0181/64/006/005/1314/1319

AUTHOR: Bugriyenko, V. I.

TITLE: The spectral distribution of the photoelectret state in silver chloride

SOURCE: Fizika tverdogo tela, v. 6, no. 5, 1964, 1314-1319

TOPIC TAGS: photoelectret, silver chloride, depolarization current, colloidal center, photolysis

ABSTRACT: Measurements were made on crystal plates by depolarization currents during repeated irradiation of the samples. The samples were 0.3 mm thick and were given preliminary annealing treatment at 670K for 6 hours. All measurements on the photoelectret state were made at 120K. Spectral measurements show that the photoelectret state in AgCl is due to different centers. The clearest maximum is found at 400 m μ . Changes in the value of this maximum during photolysis indicate the "silver" nature of the effect, and, since the smallest colloidal particles of Ag in the AgCl lattice cannot give a maximum below 475 m μ , this maximum must correspond to silver particles of subcolloidal size. The growth of colloidal Ag centers during irradiation increases the density of charge on the photoelectrets. There is

Card 1/2

ACCESSION NR: AP4034907

thus a direct connection between the photoelectret state of AgCl and the optical absorption due to colloidal centers. The acceptor properties of colloidal particles prove to have the dominant effect on the photoelectret state in crystals of AgCl. "The author sincerely thanks K. K. Demidov for his interest in the work, and L. P. Mel'nichuk and T. A. Nechayeva for the spectrophotometric measurements." Orig. art. has: 5 figures.

ASSOCIATION: Odesskiy politekhnicheskiy institut (Odessa Polytechnic Institute)

SUBMITTED: 21Oct63

ENCL: 00

SUB CODE: EM, OP

NO REF SOV: 015

OTHER: 012

Card 2/2

L 12623-65 ENT(1)/ENG(k)/ENT(m)/EEC(t)/ENP(b) Pz-6 IJP(c) AT/JD/JG

ACCESSION NR: AP4044852

S/0051/64/017/003/0406/0412

AUTHORS: Belous, V. M.; Bugriyenko, V. I.; Colub, S. I.

TITLE: On certain luminescent and photoelectric properties of silver bromide

SOURCE: Optika i spektroskopiya, v. 17, no. 3, 1964, 406-412

TOPIC TAGS: silver halide recording medium, luminor, ir spectrum, photoelectret, recombination luminescence, photoelectric property

ABSTRACT: This research was undertaken to explain the reason for the difference in the response of AgCl and AgBr luminors to infrared excitation. In order to ascertain unambiguously the glow mechanism of AgBr phosphors, the same samples were used to investigate, on the one hand, the infrared extinction spectra, the kinetics of glow buildup, and the temperature behavior of the stationary glow level and the extinction coefficient, and on the other hand the spectral

Card 1/3

L 12623-65

ACCESSION NR: AP4044852

0
distribution and the dark de-excitation of the photoelectret state of single crystals of AgBr. The accumulated experimental data indicate that the glow mechanism of AgBr crystals can be explained in terms of the following scheme: when the luminescence is excited by ultraviolet light ($\lambda = 366$ nm), free electrons and holes are produced. The orange glow is produced by the Lambe-Klick mechanism as a result of recombination of holes with electrons localized on the levels whose presence is connected with the silver centers contained in the samples. This explains why no luminescence is produced in AgBr under the influence of infrared light, and is confirmed by the determined signs of the carriers released by the infrared light from the capture levels. It is suggested that the release of localized carriers may have a photothermal character. Orig. art. has: 7 figures.

ASSOCIATION: None

Card 2/3

L 12623-65

ACCESSION NR: AP4044852

SUBMITTED: 17Oct63

ENCL: 00

SUB CODE: IG, OP

NR REF SOV: 024

OTHER: 006

Card 3/3

L 41341-65 ENT(m)/EPF(c)/EPF(n)-2/EWA(d)/T/EWP(t)/EWP(k)/SWP(b)/EWA(c)
Pf-4/Pr-4/Pu-4 LJP(c) JD/HJ/JG

ACCESSION NR: AP3000741

S/0020/63/150/003/0511/0514

AUTHOR: Bugriyenko, V. I.; Fridkin, V. M.

TITLE: Electrophotographic isoopaque of AgCl single crystals

SOURCE: AN SSSR. Doklady, v. 150, no.3, 511-514

TOPIC TAGS: electrophotographic isoopaque, electrostatic photography, silver chloride isoopaque

ABSTRACT: The form of the depolarization isoopaque for AgCl single crystals with different concentrations of colloidal silver has been investigated. Plastically deformed crystals were used in the form of foil 0.25 mm thick heat treated at 400C for 6 hr. The concentration of colloidal silver was regulated by exposures to white light from a SVDSH-250 lamp, after which absorption curves at room temperature were plotted. The photoelectret condition was created by photopolarization at the temperature of liquid nitrogen in a field of 3 kv/cm with monochromatic light of 365-millimicron wavelength. The polarization was carried out by exposures to green light of various intensities. In confirmation of results obtained earlier by Meyklyar (P. V. Meyklyar, DAN, 31, 226 (1941), it was found that exposure

Card 1/2

L 41341-65

ACCESSION NR: AP3000741

4

increases cause increases of both the concentration and the size of silver particles. The increase in particle size is characterized by deviation from the mutual substitution law, the particle diameter at a given energy growing smaller with higher light intensities. The results, in general, confirm an earlier suggestion by Fridkin (V. M. Fridkin, DAN, 143, 825 (1962) concerning the mechanism of the breakdown of mutual substitution in the formation of latent electrophotographic images within the high light-intensity range and explain the same phenomenon in experiments by Mayklyar. The theory of Mott and Gurney, therefore, remains valid without any special qualifications. Also, the analogy between latent photographic and latent electrophotographic images in silver halid compounds appears to go deeper than was previously assumed. The paper was presented by Academician A. V. Shubnikov on 28 December 1962. "The authors thank L. P. Mel'nichuk for assistance in the formula measurements." Orig. art. has: 1 table and 3 figures.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova (Odessa State University); Institut kristallografii Akademii nauk SSSR (Institute of Crystallography, Academy of Sciences SSSR)

SUBMITTED: 25Dec62

ENCL: 00

SUB CODE: SS

NO REF SOV: 008

OTHER: 004

ATD PRESS: 2026

Card 2/2

BUGRIYENKO, V.I.

Electron trapping centers in silver chloride crystals. Izv. vys. ucheb.
zav.; fiz. 8 no.2:94-99 '65. (MIRA 18:7)

1. Odesskiy politekhnicheskii institut.

L 35975-66 EWT(m)/EWF(t)/ETI IJP(c) JD

ACC NR: AP6016043 (A) SOURCE CODE: UR/0185/66/011/005/0507/0510

AUTHORS: Den'ha, E. M. -- Den'ga, E. M.; Buhriyenko, V. I. -- Bugriyenko, V. I.; Rvachov, O. L. -- Rvachev, A. L.

ORG: Odessa Polytechnic Institute (Odes'kyy politekhnichnyy instytut)

TITLE: Photoconductivity mechanism of sintered films with a cadmium sulfide base

SOURCE: ²⁷Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 5, 1966, 507-510

TOPTIC TAGS: cadmium sulfide, photoelectric property, photoconductivity, photosensitivity, ~~cadmium sulfide film~~ SEMICONDUCTING FILM

ABSTRACT: Photoelectric properties of sintered films with a cadmium sulfide base have been investigated. It is shown that the photoconductivity of coagulated films is determined by the volume of cadmium sulfide microcrystals. Great photosensitivity of the films is attainable only within a narrow temperature range of sintering, which in some cases reaches 10^{10} . Samples with high stable photosensitivity in the UV spectral zone (350--420 nm) were obtained. Orig. art. has: 2 figures. [NT]

SUB CODE: 11, 20/ SUBM DATE: 13Jul65/ ORIG REF: 003/ OTHER REF: 007

Card 1/1

DULIN, I.L.; YESIFOV, P.T.; ANTONOV, N.V.; KANEV, A.I.; SOKOLOV,
V.P.; BUGRO, Z.N.; POPOV, V., red.

[The Pechora Coal Basin in the seven-year plan; a technical
and economic survey for 1958-1963] Pechorskii ugol'nyi bas-
sein - v semiletke; tekhniko-ekonomicheskii obzor za 1958-
1963 gg. Syktyvkar, Komi knizhnoe izd-vo, 1964. 92 p.
(MIRA 18:4)

DRUGOVA, G.M.; BUGROVA, V.D.

Garnets of granulitic facies in the Aldan Shield and the conditions governing polymetamorphism. Zap. Vses. min. ob-va
93 no.1:37-45 '64 (MIRA 18:2)

1. Laboratoriya geologii dokembriya, Leningrad.

BUGYI, Balazs, dr.

Role of the constitutional factors in the formation of the changes in carpal bones of workers engaged in using compressed air instruments. Munkavedelem 8 no.10/12:44-46 '62.

1. Fovarosi Tanacs GANZ-MAVAG Uzemi Rendelointezete.

GREGOROWICZ, Zbigniew, Dr.Ing. (Gliwice, Konarskiego 13/6, Poland); BUHL, Franciszek (Gliwice, Konarskiego 13/6, Poland)

New applications of redox indicators in the indirect analysis of anions. Acta chimica Hung 32 no.2:145-149 '62.

1. Institut für Allgemeine Chemie der Schlesischen Technischen Hochschule, Gliwice, und der Analytischen Anstalt der Pädagogischen Hochschule, Katowice, Poland.

BUGRIYENKO, V.I.

Kinetics of the formation of a photoelectret state in
silver chloride. Fiz. tver. tela 4 no.11:3152-3155
N '62. (MIRA 15:12)

1. Odesskiy gosudarstvennyy universitet imeni
I.I. Mechnikova.
(Silver chloride) (Electromagnetism)

BUGRIYENKO, V. I., FRIDKIN, V. M.,

"Electrophotography on silver chloride crystals"

report to be submitted for the 1st Intl. Congress on Reprography, Cologne,
West Germany, 14-19 Oct 1963

ACCESSION NR: AP3000741

8/0020/63/150/003/0511/0514

AUTHOR: Bugriyenko, V. I.; Fridkin, V. M.

TITLE: Electrophotographic isooptics of AgCl single crystals

SOURCE: AN SSSR. Doklady, v. 150, no. 3, 1963, 511-514

TOPIC TAGS: electrophotographic isooptics, electrostatic photography, silver chloride isooptics

ABSTRACT: The form of the depolarization isooptics for AgCl single crystals with different concentrations of colloidal silver has been investigated. Plastically deformed crystals were used in the form of foil 0.25 mm thick heat treated at 400C for 6 hr. The concentration of colloidal silver was regulated by exposures to white light from an SVDSh-250 lamp, after which absorption curves at room temperature were plotted. The photoelectret condition was created by photopolarization at the temperature of liquid nitrogen in a field of 3 kv/cm with monochromatic light of 365-millimicron wavelength. The polarization was carried out by exposures to green light

Card 1/3

ACCESSION NR: AP3000741

of various intensities. In confirmation of results obtained earlier by Meyklyar (P. V. Meyklyar, DAN, 31, 225 (1941)), it was found that exposure increases cause increases of both the concentration and the size of silver particles. The increase in particle size is characterized by deviation from the mutual substitution law, the particle diameter at a given energy growing smaller with higher light intensities. The results, in general, confirm an earlier suggestion by Fridkin (V. M. Fridkin, DAN, 143, 825 (1962)) concerning the mechanism of the breakdown of mutual substitution in the formation of latent electrophotographic images within the high light-intensity range and explain the same phenomenon in experiments by Meyklyar. The theory of Mott and Gurney, therefore, remains valid without any special qualifications. Also, the analogy between latent photographic and latent electrophotographic images in silver halide compounds appears to go deeper than was previously assumed. The paper was presented by Academician A. V. Shubnikov on 28 December 1962. "The authors thank L. P. Mel'nichuk for assistance in the measurements." Orig. art. has: 1 formula, 1 table, and 3 figures.

Card2/3

ACCESSION NR: AP3000741

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University); Institut kristallografii Akademii nauk SSSR
(Institute of Crystallography, Academy of Sciences SSSR)

SUBMITTED: 25Dec62 DATE ACQ: 21Jun63 ENCL: 00

SUB CODE: 00 NO REF SOV: 008 OTHER: 004

Card 3/3

FRIDKIN, V.M.; BUGRIYENKO, V.I.

Electron mechanism underlying deviations from the law of reciprocal substitution in silver halide crystals. Dokl. AN SSSR 152 no.6: 1346-1349 0 '63. (MIRA 16:11)

1. Institut kristallografi AN SSSR. Predstavleno akademikom A.V. Shubnikovym.

KRIVONOGOV, Konstantin Konstantinovich; BUGRO, Fedor Yevseyevich; KITAYSKIY, Ye.V., otvetstvennyy red.; ZVORYKINA, L.N., red.izd-va; ALADOVA, Ye.I., tekhn.red.

[Ways of increasing the speed of mining operations] Puti uvelicheniya tempov provedeniya gornyykh vyrabotok. Moskva, Ugletekhizdat, 1957.
145 p. (MIRA 11:5)

(Coal mines and mining)

HUGRO, F.Ya., inzh.; YEVTUSHENKO, V.V., inzh.; KARPOV, B.P., inzh.

Waterproof quick-setting concrete for the reinforcement of vertical shafts in mines. Shakht.stroi. 6 no.11:13-14 N '62.

(MIRA 15:12)

1. Pechorskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Mine timbering) (Concrete)

BUGRO, F.Ye., inzh.; PARKHOMENKO, A.V., inzh.

Device for marking boreholes in ~~sinking~~ vertical mine shafts.
Shakht. stroi. 6 no.6:24-26 Je '62. (MIRA 15:6)

1. Pechorskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Shift sinking—Equipment and supplies)

BUGROV, A.

Improving research work in labor standards in industry. Biul.
nauch. inform.: trud i zar. plata 4 no.2:3-7 '61. (MIRA 14:3)
(Production standards--Research)

BUGROV, A.

Give more attention to norms research work. Sots. trud 6 no.12:71-
74 D '61. (MIRA 14:11)
(Production standards---Research)

BUGROV, A. M.

1. BUGROV, A. M.
2. USSR (600)
4. Water, Underground - Kyzyl-Kum
7. Report on the geological and hydrogeological plotting in southwestern Kyzyl-Kum (Sheet K-71-XXIII). (Abstract.) Izv.Glav.upr.geol.fon. no. 2, 1947
9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

BUGROV, A. P.

Medical Instruments and Apparatus

Standardization of medical instruments and permissible variation in their manufacture.
Med. prom., no. 4, 1952.

Monthly List of Russian Accessions. Library of Congress. November 1952. UNCLASSIFIED.

BUGROV, A.P.; SEMENKEVICH, S.R.; SEMENOV, A.I.; SLUTSKIY, G.V.;
SHAPIRO, I.I.; YUSUFOVICH, B Ye.; SEMENOV, S.M., red.;
ZAYTSEVA, L.A., tekhn. red.

[Establishing norms is the basis of scientific labor
organization] Normirovanie - osnova nauchnoi organizatsii
truda. Moskva, Profizdat, 1964. 61 p. (Bibliotekha
profsoiuznogo aktivista, no.2(74)) (MIRA 17:2)

BUGRAV, [Semenov Porfir'evich; KIRILIN, Igor' Aleksandrovich;
MURAVYOV, Boris Yefimovich; KIRILIN, A.I., rev.

[For progressive work norms] Za normy truda, zovushchie
vpered. Moskva, Izd-vo "Znanie," 1964. 76 p. (Leningrad
universitet kultury. Tekhniko-ekonomicheskii fakul'tet,
no. 7) (FIR: 17:8)

BUGROV, S.S.

Simplified control and protection diagram for synchronous
electric motors. Biul. TSIIN tsvet. met. no. 6:9 '58. (MIRA 11:7)
(Electric motors, Synchronous)

GORINOV, Aleksandr Vasil'yevich, prof. Prinimali uchastiye: TURBIN, I.V., dotsent, kand.tekhn.nauk; KANTOR, I.I., dotsent, kand.tekhn.nauk; KONDRATCHENKO, A.P., dotsent, kand.tekhn.nauk; YEVREYSKOV, V.Ye., prof., retsenzent; LEBEDEV, A.I., dotsent, retsenzent; VOZNESENSKIY, G.D., dotsent, retsenzent; ISAKOV, L.M., dotsent, retsenzent; DZHGAMADZE, O.V., dotsent, retsenzent; CHERNYSHEV, G.P., inzh., retsenzent; MYSHKIN, G.N., inzh., retsenzent; ZAYTSEV, I.M., inzh., retsenzent; OZERETSKOVSKIY, V.P., inzh., retsenzent; ZARETSKIY, A.O., inzh., retsenzent; BUGROV, B.A., inzh., retsenzent; KOSTIN, I.I., prof., red.; BOBROVA, Ye.N., tekhn.red.

[Railroad surveying and designing] Izyasaniia i proektirovanie zheleznnykh dorog. Moskva, Vses.izdatel'sko-poligr.ob'edinenie M-va putei soobshcheniia. Vol.1. Izd.4., perer. 1961. 336 p. (MIRA 14:4)

1. Chlen-korrespondent Akademii nauk SSSR (for Gorinov). 2. Kafedra "Proyektirovaniye i postroyka zheleznnykh dorog" Novosibirskogo instituta inzhenerov zheleznodorozhnogo transporta (for Yevreyskov, Lebedev, Voznesenskiy, Isakov, Dzhgamadze). 3. Gosudarstvennyy projektno-izyskatel'skiy institut "Gipromtransstroy" (for Chernyshev, Myshkin, Zaytsev, Ozeretkovskiy, Zaretskiy, Bugrov).
(Railroad engineering)

S/726/58/000/001/004/004
E195/E385

AUTHORS: Bugrov, B.G., Gorlov, O.G., Petrov, A.V., Serov, A.D.,
Yugov, Ye.M. and Yakovlev, V.I.

TITLE: Investigation of the vital activity of animals during
flight in a non-airtight rocket cabin to an altitude
of 110 km

SOURCE: Predvaritel'nyye itogi nauchnykh issledovaniy s
pomoshch'yu pervykh sovetskikh iskusstvennykh sputnikov
Zemli i raket; sbornik statey. no. 1. XI razdel
programmy MGG (rakety i sputniki). Moscow, Izd-vo
AN SSSR. 130 - 149, 1958

TEXT: The use was investigated of ventilation scaphanders
with oxygen masks to provide the necessary living conditions for
animals during flight in a non-airtight rocket cabin to a height of
110 km and during catapulting at great flight speed at an altitude
of 80 - 90 km, as well as the effect of specific flight factors
on the organism of animals in the upper layers of the atmosphere.
All the investigations were carried out on 12 dogs, six of which
took part in two flights. The special equipment and the method of
Card 1/3

Investigation of

S/726/58/000/001/004/004
E195/E385

investigation are described. Catapulting at an altitude of 75-85 km at 560-730 m/sec and at an altitude of 39-46 km at 1000-1100 m/sec does not significantly affect the physiological functions of an animal. Parachute systems provide safe landing and rescuing of animals with equipment that reached an altitude of 75-85 km. Animals do not experience significant changes in the function of the circulatory and respiratory systems during flight in a rocket. The changes of the arterial pressure, pulsation and breathing are quite small. In some cases these changes are accompanied by the development of the passive-defensive reactions. The animals that were subject for 3.7 min to the conditions of complete or partial weightlessness have a tendency to certain lowering of arterial pressure and to a decrease of heartbeats. No changes could be observed in the behavior or in the physiological functions of the animals, in the pigmentation of the skin or the fur, which could be considered as a result of cosmic radiation effect during the flight. The checking of animals for 6-7 months after the flight did not give any information about changes in their health or behavior.. The equipment in the rocket during the Card 2/3

S/726/58/000/001/004/004
E195/E385

Investigation of

flight provided general registration of physiological functions .
of the animal. Nevertheless, it is necessary to improve this
equipment. There are 9 figures and 2 tables.

Card 3/3

BUGROV, D., inzh.

Which engines are more efficient? Grazhd. av. 20 no.3:26
Mr '63. (MIRA 16:4)

(Airplanes—Engines)

Bugrov, D. Ye.

86-58-3-30/37

AUTHOR: Bugrov, D. Ye., Sen Engr Lt

TITLE: How to Prevent a Drop in Engine Revolutions at High Altitudes (Kak izbezhat' padeniya oborotov dvigatelya na bol' shikh vysotakh)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 3, pp 79-80 (USSR)

ABSTRACT: The author states in this article that a drop in revolutions of the VK-1A engine at high altitudes was sometimes caused by an inadequate adjustment of the ART-8B unit of the engine. This particular unit should be adjusted and tested on a special stand after every repair. The author describes in detail the functioning of that unit at high altitudes.

AVAILABLE: Library of Congress

Card 1/1

BUGROV, F.I.; GOLOVKO, I.D.; SHESTOPAL, V.M., doktor tekhn. nauk,
retsenzent

[Ready reference tables for the design of foundries] Spravochnye tablitsy po proektirovaniu liteinykh tsekhov. Moskva, Mashinostroenie, 1964. 231 p. (MIRA 17:10)

POPOV, Andrey Dmitriyevich; BUGROV, F.I., retsenzents; VOLPIANSKIY,
L.M., inzh., red.; DUGINA, N.A., tekhn. red.

[Foundry practice and the design of foundries] Rabota liteinykh
tsekhov i ikh proektirovanie. Pod red. L.M.Volpianskogo. Mo-
skva, Mashgiz, 1962. 44 p. (Nauchno-populiarnaya biblioteka ra-
bochego-liteishchika, no.32) (MIRA 15:7)

(Founding)

COMMON ELEMENTS		PROCESSING AND PROPERTY INDEX	
<p>856. GASIFICATION OF BROWN COALS FROM MOSCOW DEPOSIT IN "GIPROMEZ" GAS GENERATORS. Maslygin, A. E. and Buregyn, G. A. (Steklo i Keram. (Glass and CERam.), June 1950, vol. 7, 11-13).</p> <p>Describes above type of gas generator especially suited to the glass factory. Details of operation are indicated.</p>			
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>13000 SYNOPTIC</p>		<p>13000 SYNOPTIC</p>	
<p>13000 SYNOPTIC</p>		<p>13000 SYNOPTIC</p>	

BCS

*Manufacturing Processes
Fuels, Kilns, Firing*

261. The operation of gas producers with brown coal.—A. E. MASLYGIN and G. A. BUGAYOV (*Sib. Keram.*, 8, No. 7, 23, 1951). Two schedules for carbonizing Moskow coal in a glass plant. (2 tables.)

USSR/ Engineering - Structural improvements

Card 1/1 Pub. 104 - 11/12

Authors : Maslygin, A. E.; and Bugrov, G. A.

Title : Improvement in the construction of Gipromez type gas generator

Periodical : Stek. i ker. 1, page 31, Jan 1954

Abstract : Changes made in the construction of gas generators manufactured by the Gipromez Combine, are described. Drawings.

Institution:

Submitted:

BUGROV, G. A .

USSR/ Miscellaneous

Card 1/1 : Pub. 104 - 11/12

Authors : Bugrov, G. A.

Title : Increase in the output of GIPROMEZ gas generators

Periodical : Stek. i ker. 9, Page 32, September 1954

Abstract : Speaking on the economy of fuels, the author presents several proposals for increasing the output of GIPROMEZ-type gas-generators used in glass and ceramics industry.

Institution :

Submitted :

BUGROV, G.M., inzh.; LEZIN, Yu.S., kand. tekhn. nauk

Passage of an impulse signal and noise through a system consisting of a frequency filter and two storage devices with delayed feedback. Trudy GFI 18 no.2:33-41 '62. (MIRA 37:8)

L 14517-63
Pg-4 GG/IJP(C)

EWI(d)/FCC(w)/BDS ASD/ESD-3/APGC Pg-4/Pk-4/Po-4/

ACCESSION NR: AP3004369

S/0109/63/008/008/1355/1360

AUTHOR: Lezin, Yu. S.; Bugrov, G. M.

TITLE: On the advisability of adding a second storage stage with delayed feed-back 8

SOURCE: Radiotekhnika i elektronika, v. 8, no. 8, 1963, 1355-1360

TOPIC TAGS: receiver, amplifier, pulse amplifier, feedback, delayed feedback, pulse storage, memory, memory circuit, signal-to-noise ratio

ABSTRACT: In the reception of a pulse-train signal the increase in signal-to-noise ratio that can be realized by adding a storage stage with delayed feedback is analyzed, and the possibility of further improvement by adding a second identical stage is investigated. In the circuit shown in Fig. 1 of Enclosure, filters F_1 and F_2 are assumed to have passbands appreciably greater than the repetition frequency of the arriving pulses, which are assumed to be rectangular and of equal amplitude. The accompanying noise is assumed white and of normal distribution. A train of N pulses is considered, where N is sufficiently large that $m^N \ll 1$, where m is the feedback coefficient. Expressions are then derived

L 14517-63

ACCESSION NR: AP3004369

for peak output signal and noise power, from which the effect of adding the second stage is evaluated. These show that the relative gain in the signal-to-noise ratio is

$$\frac{(1 + m)^2}{1 + m^2},$$

which is essentially 2 for m in the range 0.8—1.0. In particular, the relative gain for a relatively narrow bandpass in input filter F_1 approaches the value 2 monotonically as the bandpass of F_2 was widened. At a wider ΔF_1 , the gain factor may initially slightly exceed 2 but eventually converges to 2 with increased ΔF_2 . These considerations suggest that the potential gain in signal-to-noise ratio may in some cases justify the added complexity of a second stage. By way of comparing the described dual delay circuit to a single optimum filter stage, the gain in the signal-to-noise ratio of the former over the latter would be as high as 64 for $m = 0.95$. Orig. art. has: 3 figures and 9 formulas.

ASSOCIATION: none

SUBMITTED: 14Jul62

DATE ACQ: 20Aug63

ENCL: 01

SUB CODE: GE

NO REF SOV: 003

OTHER: 000

Card 2/82

ACCESSION NR: AR4023746

S/0274/64/000/001/A007/A007

SOURCE: RZh. Radiotekhnika i elektrosvyaz', Abs. 1A31

AUTHOR: Bugrov, G. M.; Lezin, Yu. S.

TITLE: Propagation of a pulse signal and noise through a system consisting of a frequency filter and two storage units with delayed feedback

CITED SOURCE: Tr. Gor'kovsk. politekhn. in-ta, v. 18, no. 2, 1962, 33-41

TOPIC TAGS: pulse signal, noise background, signal from noise separation, frequency filter, frequency discriminator, delayed feedback, noise accumulation, time shift of signal maximum, signal peak transfer coefficient

TRANSLATION: The authors consider the propagation of a sequence of

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pulse signals and noise through a system consisting of a frequency filter F_1 and two storage units with delayed feedback and filters F_2 connected in the feedback channels. The signal at the output of the system is determined by means of the convolution theorem

$$u_3(t) = \int_0^t h(t-x) \cdot u_2(x) dx$$

where $h(t)$ is the impulse transfer function of one of the delayed-feedback storage units, and $u_2(x)$ is the output voltage of the first storage unit. It turns out that when F_1 and F_2 have limited bandwidths the signal reaches its peak value not at the instant when the pulse terminates, but somewhat later. The narrower the bandwidth of F_1 and F_2 , and the larger the feedback factor, the larger the shift of the maximum of the output signal. Both the duration of the shift in the output-signal maximum and the transfer coefficient of

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the peak value of the signal were calculated. Calculation shows that the noise is accumulated to a considerably higher level in the second storage unit than in the first. The reason for it is that after passage of the noise through the first storage unit the instantaneous values of the noise, separated by time intervals that are multiples of T , turn out to strongly correlated with one another. Bibliography, 3 titles. Yu. Sh.

DATE ACQ: 03Mar64

SUB CODE: GE

ENCL: 00

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S/117/60/000/011/008/035
A004/A001

AUTHOR: Bugrov, K. N.

TITLE: New Achievements in Modernization of Equipment

PERIODICAL: Mashinostroitel', 1960, No. 11, pp. 11-12

TEXT: The author gives a report on the modernization and automation of production equipment, which is based on materials of the All-Union Scientific and Technical Conference on the Modernization of the Equipment of Mechanical Engineering Enterprises, convened at Stalingrad by the end of 1959. He points out that standard machine tools are converted into semi-automatics and automatics by equipping them with pneumatic and hydraulic systems, automatic loading and handling devices etc. As a result of such conversions their efficiency is raised by 2 - 3 times, since auxiliary operations are reduced considerably. At the Sverdlovskiy turbomotornyy zavod (Sverdlovsk Turbine Engine Plant) the multi-tool MT-30 and MT-31 lathes were not modernized by mounting new expensive carriages, as it is planned in the ENIMS standardization project, but the existing carriages were altered by adding two mechanisms: a switching on and off mechanism of the feed worm and a mechanism for the rapid carriage travel. Moreover, the number of

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spindles was increased on some unit-head machine tools, making it possible to cut down the number of operations and reduce labor consumption. Thus, e. g. the 5-60 (B-60) unit-head 16-spindle horizontal drilling machine was converted into a 40-spindle machine and can be used now for the simultaneous face drilling of two gear boxes. Also the 5-65A (B-65A) unit-head 11-spindle vertical drilling machine was converted into a 25-spindle machine for the machining of cylinder block heads. By adding a milling head on the cross arm of a four-spindle planomilling machine another machine could be disengaged, while the addition of two three-spindle heads to the 5-28A (B-28A) unit-head 48-spindle vertical drilling machine made it possible to combine two operations and set free a radial drilling machine. At the Kirovskiy zavod (Kirov Plant) of the Leningrad Sovnarkhoz the number of teeth of the indexing wheel for the milling of turbine reducer gears was doubled, owing to which the accumulated errors of the peripheral pitch could be considerably reduced, while the frequency of cyclic errors from the indexing worm increases with a simultaneous decrease in their amplitude. Owing to this the smoothness of gearing is increased, dynamic and impact loads on the teeth are reduced and noise and vibrations decrease. Several mechanical engineering plants modernized their machinery with the aid of the multi-purpose speed regulator produced by the Chelyabinskiy traktorny zavod (Chelyabinsk Tractor Plant).

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The speed regulator is manufactured in various sizes with capacities of 2.5, 5, 10, and 20 hp. A characteristic feature of this speed regulator is the constant torque on the output shaft at speeds from 0 to 500 rpm. The multi-purpose speed regulator is particularly recommended in those cases when smooth speed variations are necessary. At one of the Rostov Sovnarkhoz plants surface grinding machines, heavy lathes, precision milling machines and boring machines of the types 372B (372B), 371-M1 (371-M1) and ДИП-500 (DIP-500) were modernized by introducing an original system of doubling ball bearings with a compulsory individual control of each bearing. Modernized milling machines with program control of one of the Mosoblsovnarkhoz plants showed some interesting features. It was pointed out that up to 5 million spinning rings have to be produced per year by the textile machine industry, while the degree of automation of their manufacture is still rather low. The semi-automatics for the turning and boring of these rings, assembled at the Tashkentskiy zavod tekstil'nogo mashinostroyeniya (Tashkent Textile Machine Plant) had magazine feed loading devices, but they were of such poor design that loading had to be carried out by hand. At present, the Tash-tekstil'mash Plant has designed and built a rotary feeding automatic, while a vibration loading hopper was produced for the MK-100 boring semi-automatic. With the aid of these loading devices the semi-automatics were converted into fully

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automatic machines which can be combined in an automatic line. At one of the Kuybyshev Sovnarkhoz plants the small ПБ-452 (PB-452) hydraulic press for the briquetting of chips was modernized and equipped with a special container. The press now has an output of 300 briquets per hour and, as a result of the modernization, 150,000 rubles could be saved annually. The modernization of the КП-6 (KP-6) crank press, which was equipped with swivel feed hoppers and component conveyers carrying the blank under the punch, was rather efficient. At the Stalingradskiy traktorny zavod (Stalingrad Tractor Plant) the steel furnaces were equipped with conical jackets which made it possible to increase the volume of melts by 1.5 - 2 tons. By the installation of hydraulic controls the output of two smelting furnaces was increased by 10 tons of liquid metal. By rearranging the molding machines in the molding section of the steel and pig iron foundries and modernizing the foundry equipment, the output of these shops increased by 37.5%.

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L 11512-66 EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b) JD/EM

ACC NR: AP6003287

(N)

SOURCE CODE: UR/0135/66/000/001/0045/0045

AUTHOR: Davydenko, R. S. (Engineer); Bugrov, K. N. (Engineer)

ORG: none

TITLE: All-Union Conference on the Use of Servo, Copying and Programmed Systems for the Welding, Build-Up and Cutting of Metals held in Volgograd from 19 to 22 May 1965

SOURCE: Svarochnoye proizvodstvo, no. 1, 1966, 45

TOPIC TAGS: gas cutting, metal cutting, servomechanism, photoelectric copying, computer programming, automatic welding, welding technology, automatic control system, metallurgic conference

ABSTRACT: This Conference, the first of its kind, was attended by more than 200 representatives of various plants and organizations. More than 30 papers and communications were presented. As regards the flame cutting of metals, the following principal subjects were discussed: the current and future status of the automation of oxygen cutting; the development of an universal programming device for machines with digital programmed control in the shipbuilding industry; the computerization of mold-loft operations in the shipyard; a digital programmed control system for the automatic marking and gas cutting of components; photoelectric copying systems for gas-cutting machines; the replacement of the gas cutting of carbon steels with gas-electric cut-

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ting. It was also stated that the spreading use of flame-arc cutting requires a considerable increase in copying rate (eventually to as much as 10 m/min). The topics discussed in the papers on the automation of welding and build-up included: the causes of the displacement of the axis of joint under the electrode during the welding of spiral-shaped tubes and the methods of correcting the electrode's position relative to the joint's axis; programmed control of the motions of welding equipment; kinematic errors and dynamic properties of the control system of a welding machine; electric and pneumatic servomechanisms for stabilizing arc length in argon arc welding; an automatic control system for quality seam welding; programmed and servo control devices for arc welding machines; automatic build-up of intricately shaped trimming dies at a rate 3 times as fast as that of manual build-up. The Conference's participants adopted a resolution summarizing the results of its work and outlining measures to expedite research and development work in the fields indicated. In particular, the Conference recommended that State tests of the principal types of new machines and control systems be carried out during 1965-1966 with the object of selecting the best models for serial production.

SUB CODE: 05,11,13,09/ SUBM DATE: none/ ORIG REF: 000/ OTH REF: 000

TS
Card 2/2

ACC NO: AP6029954 (A, N) SOURCE CODE: UR/0413/66/000/015/0133/0134

INVENTORS: Baranov, N. A.; Birman, R. S.; Bugrov, M. S.; Nozdrin, V. R.; Dneprov, A. L.; Babikov, G. V.; Loginov, L. A.

ORG: none

TITLE: An automatic line¹⁴ for continuous adjusting, cutting, and inspecting for the presence of surface defects and for the type of steel or the hardness of metallic rods. Class 49, No. 184589 [announced by Moscow Metallurgical Plant "Sickle and Hammer" of the Order of Lenin and the Order of the Workers' Red Banner (Moskovskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni metallurgicheskii zavod "Serp i molot")]

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 133-134

TOPIC TAGS: metalworking, automation, industrial automation, automatic control equipment

ABSTRACT: This Author Certificate presents an automatic line for continuous adjusting, cutting, and inspecting for the presence of surface defects and for the type of steel or hardness of metallic rods. To improve its efficiency and the quality of inspection, the line contains a combination of consecutively mounted (along the course of the technological process): an assembly for adjusting and cutting the ends of the rods; an assembly for a simultaneous inspection of the rods for the presence of surface defects and for the type of steel or for the hardness (by a defectoscopic

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UDC: 620.179.6-422.2

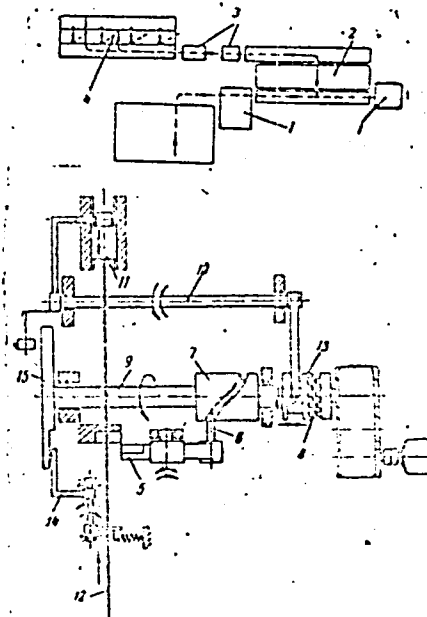
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ACC NR: AP6029954

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assembly); and an assembly for sorting the usable and the defective rods (see Fig. 1).

Fig. 1. 1 - assembly for adjusting and cutting; 2 - assembly for dismounting and transporting; 3 - defectoscopic assembly; 4 - assembly for sorting the usable and the defective products; 5 - movable blade; 6 - knife finger; 7 - knuckled drum; 8 - clutch; 9 - roller; 10 - lever; 11 - movable carriage; 12 - rod; 13 - semiclutch; 14 - lever; 15 - sprocket



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The assembly for adjusting and cutting of the rods being inspected may contain a lever shear with one movable blade. The shear contains a finger, a drum knuckle with a contoured recess for receiving the finger of the blade, a clutch mounted on one roller, a system of levers connected to a bearing carriage and absorbing the force of a blow from the moving rod being inspected and transmitting the movement to one of the semiclutches. The assembly for adjusting and cutting the inspected rods may also contain a mechanism for collecting the cut rods. This mechanism is made in the form of a lever kinematically connected to a sprocket mounted on the roller which also carries the knuckled drum and the clutch. Orig. art. has: 1 figure.

SUB CODE: 15/25 SUBM DATE: 10Dec63

Card 3/3

BUGROV, N., podpolkovnik

"Individual evaluation," discussion of the article published
in No. 4. Voen.vest. 43 no.11:97 N '63. (MIRA 16:12)

LEVIN, Ya., inzh. (Moskva); BUGROV, N., inzh. (Moskva)

"Screwdriver" for an open-hearth furnace. Izobr. i rats.
no.4:26-27 '63. (MIRA 16:7)

(Open-hearth furnaces)